

**Record 19: JP54100444A****(ENG) POLYETHYLENE RESIN COMPOSITION****Assignee:** SHOWA DENKO KK

[ no drawing available]

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**Abstract:** (ENG) <sec>PURPOSE: To prepare a polyethylene resin composition having excellent environmental stress cracking resistance, and useful for blow molding and extrusion molding, by mixing an ethylene polymer having low molecular weight and high density with another ethylene polymer having high molecular weight and low density. CONSTITUTION: A resin composition having an MI of 0.05-2.0 g/10 min. and a density of 0.930-0.960 g/cm<sup>3</sup> prepared by mixing (A) 10-65 wt% of an ethylene copolymer having an intrinsic viscosity of 2.5-8 dl/g, a density of 0.91-0.95 g/cm<sup>3</sup>, and the number of branches per 1000 skeleton carbon atoms of  $\geq 2$ , and uniform branching degree distribution, obtained by the polymerization of ethylene and a  $\alpha$ -olefin, and (B) 90-35 wt% of an ethylene polymer having an intrinsic viscosity of  $\leq 1.7$  dl/g, and a density of  $\geq 0.955$  g/cm<sup>3</sup>, obtained by the polymerization of ethylene or the copolymerization of ethylene and an  $\alpha$ -olefin. The difference between the densities of the component A and component B is pref.  $\geq 0.01$ , and the ratio of the intrinsic viscosities of (A) to (B) is pref.  $\geq 1.5$ .

**Priority Data:** JP 669678 19780126 A X;**IPC (International Class):** C08L02308